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IMAGERY

ANALYSIS

STAFF

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAM RAILROADS

DECLASS REVIEW by NIMA/DOD

Report No. 33
CIA/PIR 75107

DATE March 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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PREFACE

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

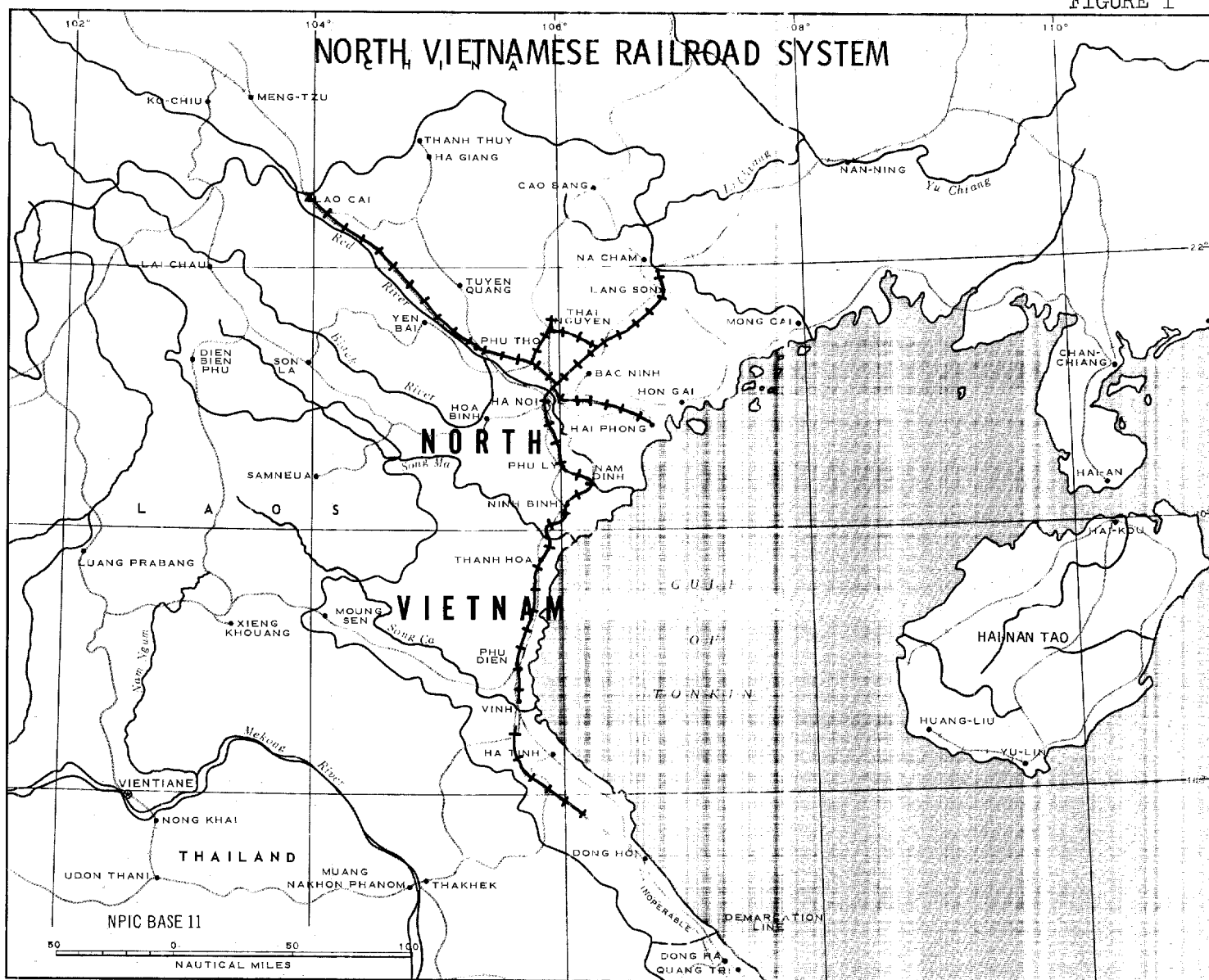
The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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FIGURE 1



-2-

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SUMMARY

That portion of the Hanoi/Haiphong Rail Line covered by interpretable photography was open to through traffic. Two bridge interdictions were observed on the Hanoi/Dong Hoi Rail Line, and the reconstruction of the southern portion of the rail line continues.

CONTENTS

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Hanoi/Haiphong Rail Line	32
Thai Nguyen Rail Line	34

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FIGURE 2

KEY

All maps within this report have been based on the following manner:

- Main bridge located - see verifications.
- By-pass bridge or bridge verifications.
- Main bridge unverified.
- All bridge crossing facilities unverified.
- ▲ By-pass bridge under construction.

Original bridge has not been damaged or destroyed based on available photography.

Extent of rail line covered by available, interpretable photography.

Item of interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.

Description of bridges numbered 1 through 76 can be found in CHAPTER 606, August 1965.

HANOI - LAO CAI
RAILROAD

0 5
STATUTE MILES

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STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
HANOI/LAO CAI RAIL LINE

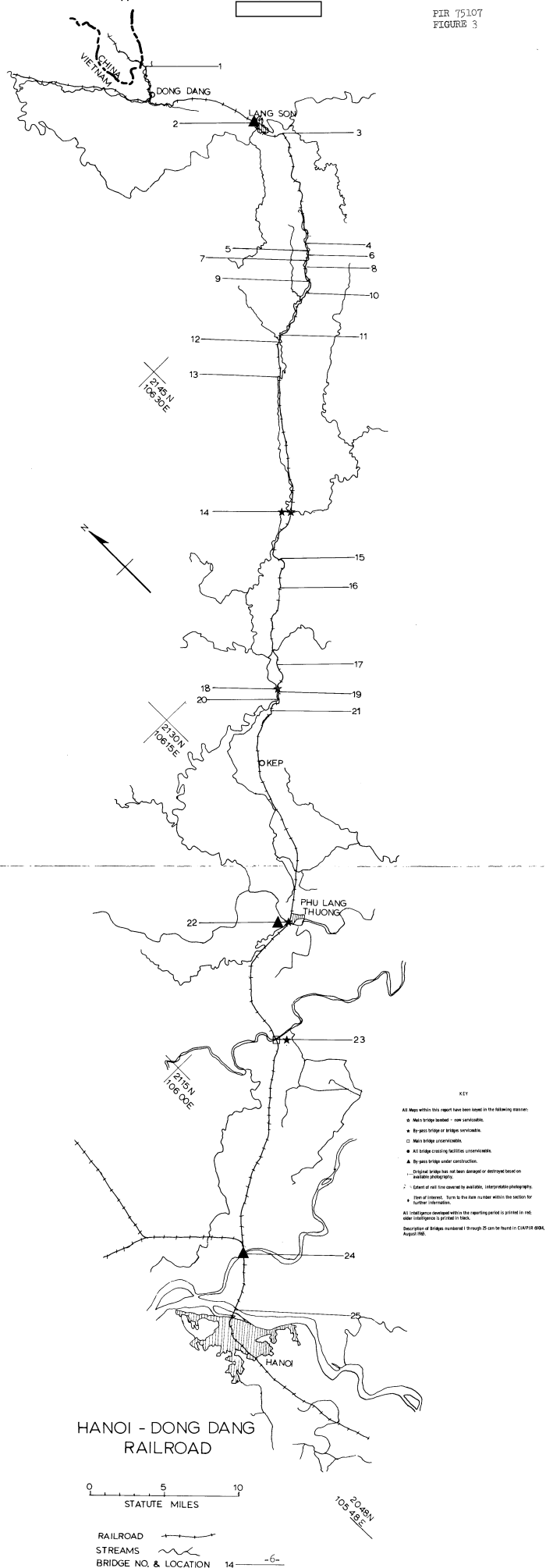
	<u>Bridge Number and Name</u>	<u>Date Last Observed</u>	<u>Status</u>
25X1	30 Lang Thip Railroad Bridge over Ngoi Thip ()		S
25X1	32 Lang Kay Railroad Bridge NW over Ngoi Key ()		S
25X1	35 Lang Kay Railroad Bridge over Ngoi Chuc ()		S
25X1	37 Lang Kay Railroad Bridge S over Nam Linh ()		S
25X1	39 Lang Khay Railroad Bridge over Ngoi Kay ()		S
25X1	41 Khe Se Railroad Bridge South over Stream ()		S
25X1	43 Trai Hut Railroad Bridge NW over Ngoi Cho ()		S
25X1	44 Trai Hut Railroad Bridge over Nam Lam ()		S
25X1	45 Som Dong Dep Railroad Bridge over Nam Muoi ()		S
25X1	47 Lang Quach Ngoai Railroad Bridge N over Ngoi Vai ()		S
25X1	48 Lang Quach Ngoai Railroad Bridge over Ngoi Quach ()		S
25X1	51 Pho Chang Railroad Bridge over Ngoi Trang ()		S
25X1	55 Pho Hop Railroad Bridge over Ngoi Hop ()	S	
25X1	67 Phu Tho Railroad Bridge East over stream ()	S	

*All data is compiled from photography dated () or thereafter.
Symbols: S-Serviceable; U-Unserviceable

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STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
HANOI/DONG DANG RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	14 Cao Nung Railroad Bridge over Song Hoa ()	[REDACTED]	S	25X1
25X1	14 Cao Nung Railroad Bridge East over Song Hoa ()		S	
25X1	22 Bac Giang Railroad and Highway Bridge over Song Thuong ()		S	
25X1	23 Dap Cau Railroad and Highway Bridge over Song Cau ()		U	
25X1	23 Dap Cau Railroad Bridge over Song Cau ()		S	

25X1

*All data is compiled from photography dated () or thereafter.

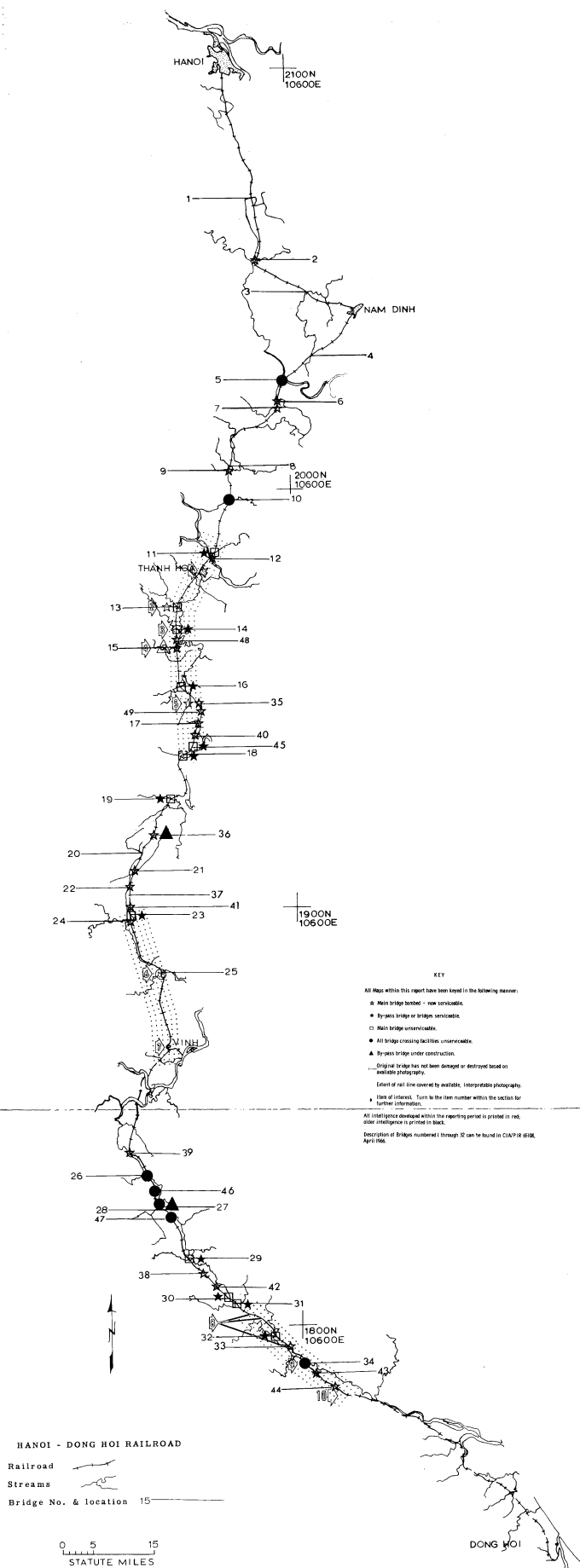
Symbols: S-Serviceable; U-Unserviceable

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FIGURE 4



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DDI IMAGERY ANALYSIS STAFF

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
 HANOI-DONG HOI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	3 Cao Duong Railroad and Highway Bridges over Canal [REDACTED]	[REDACTED]	S
25X1	5 Ninh Binh Railroad and Highway Bridge over Song Day [REDACTED]		U
25X1	5 Ninh Binh Railroad Bridge over Song Day [REDACTED]		U
	5 Ninh Binh Railroad Pontoon Bridge		U
25X1	6 Ha Thon Railroad and Highway Bridge over Song Vac [REDACTED]		S
25X1	7 Ly Nhan Railroad and Highway Bridge over Stream [REDACTED]		S
25X1	9 Yen Xa Railroad and Highway Bridge over Stream [REDACTED]		S
25X1	10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [REDACTED]		U
25X1	10 Dong Phong Thuong Railroad Bridge S over Song Len [REDACTED]		U
25X1	10 Dong Phong Thuong Railroad Bridge E Bridge [REDACTED]		U
25X1	11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [REDACTED]		U
25X1	11 Phuong Dinh Railroad Bridge over Lach Truong [REDACTED]		S
25X1	12 Thanh Hoa Railroad and Highway Bridge over Song Ma ([REDACTED])	S	

*All data is compiled from photography dated [REDACTED] or thereafter.
 Symbols: S-Serviceable; U-Unserviceable

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1 13	Thien Linh Dong Railraod Bridge over Hoang Giang [REDACTED]	[REDACTED]	U
25X1 13	Thien Linh Dong Railroad Bridge SW over River [REDACTED]		S
25X1 14	Thinh Lac Railroad Bridge over Stream [REDACTED]		U
25X1 14	Thinh Lac Railroad Bridge SSW over Stream [REDACTED]		S
25X1 15	Truong Quang Tien Railroad Bridge over Song Yen Tr [REDACTED]		S
25X1 15	Truong Quang Tien Railroad Bridge E over River [REDACTED]		U
25X1 16	Thi Long Railroad Bridge over Suoi Cay Gang [REDACTED]		U
25X1 16	Thi Long Railroad Bridge SW over Suoi Cay Gang [REDACTED]		S
25X1 17	Phu Quat Railroad Bridge over Stream [REDACTED]		S
25X1 18	Dia Thuy Railroad Bridge SW over Khe Dua [REDACTED]		U
25X1 18	Dia Thuy Railroad Bridge NW over Khe Dua [REDACTED]		S
25X1 19	Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [REDACTED]		U
25X1 19	Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [REDACTED]	S	
25X1 19	Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [REDACTED]	U	
25X1 19	Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [REDACTED]	S	

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	21 Long Ngoc Railroad and Highway Bridge over Unknown Barrier [REDACTED]	[REDACTED]	S	25X1
25X1	22 Dong Khe Railroad Bridge over Stream [REDACTED]		S	
25X1	23 Dien Chau Railroad Bridge over Song Bang [REDACTED]		U	
25X1	23 Dien Chau Railroad Bridge E over Song Bang [REDACTED]		S	
25X1	24 Da Phuc Railroad Bridge over Intermittent waterway [REDACTED]		S	
25X1	25 Tam Da Railroad and Highway Bridge over Song Cua Lo [REDACTED]		U	
	25 Tam Da Railroad By-pass Bridge		U	
25X1	26 Trai Hoi Railroad and Highway Bridge over Ngan Sau [REDACTED]		U	
25X1	27 Xom Hoai Railroad and Highway Bridge over Rao No [REDACTED]		U	
25X1	32 Xom Khe Railroad Bridge over Khe Net [REDACTED]		U	
	32 Xom Khe Railroad Bridge By-pass over Khe Net		S	
25X1	33 Kim Lu Xa Railroad Bridge over Khe Danh [REDACTED]		S	
25X1	35 Thi Long Railroad Bridge SE over Stream [REDACTED]		S	
	35 Thi Long Railroad Bridge S By-Pass		S	
25X1	36 Tho Trang Railroad Bridge over Stream [REDACTED]	S		

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[REDACTED]

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1 39	Quang Te Railroad Bridge over Khe Hac Giang [REDACTED]	[REDACTED]	U
25X1 40	Qui My Railroad Bridge over Stream ([REDACTED])		S
41	Tu My Railroad Bridge		S
42	Trai Tran Xom Railroad Bridge		S
25X1 43	Dong Ca Thron Railroad/Highway Bridge over Cai Khe [REDACTED]		S
25X1 44	Kiev Moc Phuong Railroad Bridge W over Stream [REDACTED]		S
25X1 45	Phu-Cu Railroad Bridge N over Stream [REDACTED]		U
25X1 48	Sai Thon Railroad Bridge N over Stream ([REDACTED])	S	
25X1 49	Nap Bang Railroad Bridge over Stream ([REDACTED])	S	

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[REDACTED]

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ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME: Thanh Hoa RR Station, Yard and Siding

25X1

BE:

COORDINATES: 19 48N - 105 46E, W6807906

PHOTO REFERENCE:

25X1

MAP REFERENCE: JOG (A) 1501, NE 48-3

The Thanh Hoa Railroad Yard and Transloading Area (See Report No. 29) has been bombed. All tracks within the yard itself have been interdicted in many places, and the 2 by-pass tracks have also been cut (Figure 5). The choke point at the southern end of the yard has been destroyed. The turning wye and its associated yard to the north of the main yard have also suffered heavy damage (Figure 6). All tracks have been cut in many places and both choke points have been cut.

An analysis of the railroad equipment within both yards, the turning wye and the adjacent main line reveals the following (figures are approximate):

<u>TYPE</u>	<u>DAMAGED/DESTROYED</u>	<u>UNDAMAGED</u>	<u>TOTAL</u>
2-axle flat cars	44	49	93
Conventional cars (various types)	84	56	140
Probable locomotive and tender	<u>1</u>	<u>0</u>	<u>1</u>
TOTAL	129	105	234

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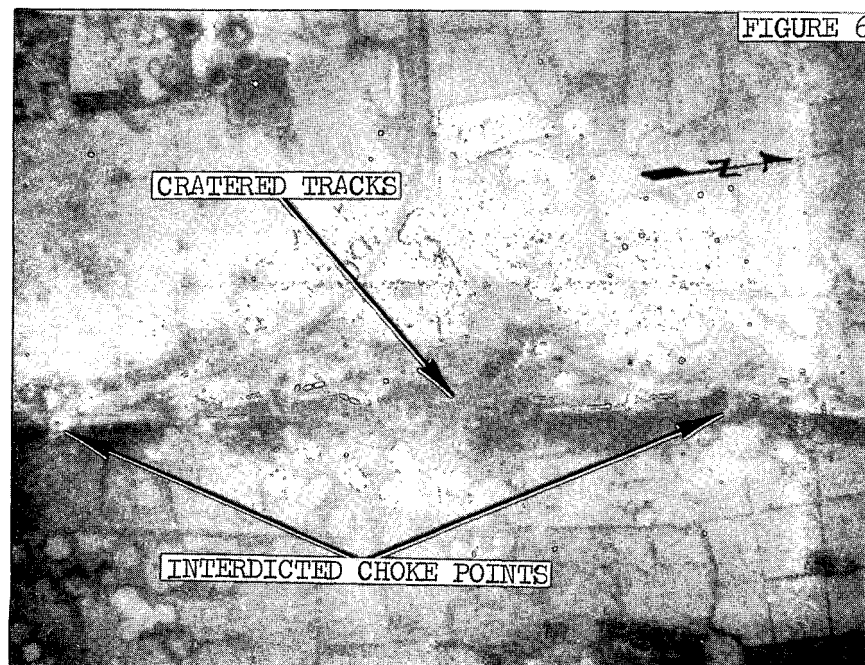
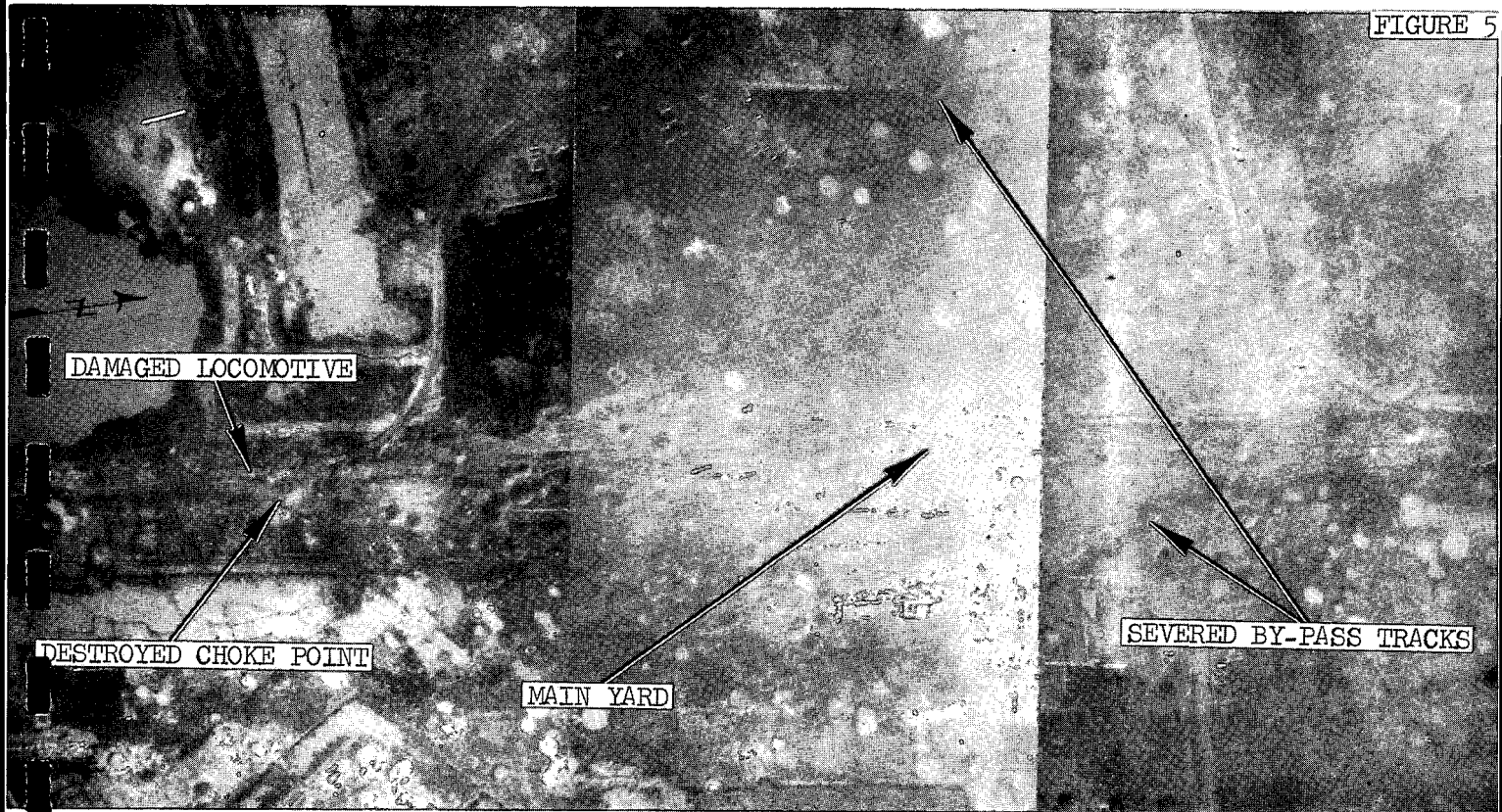
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ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME: Thien Linh Dong RR Bridge SW

25X1

BE: [REDACTED]

COORDINATES: 19 43N - 105 42E, XG748815

25X1

PHOTO REFERENCE: [REDACTED]

MAP REFERENCE: JOG (A) 1501, NE 48-3

25X1

The 4-span, deck-beam Thien Linh Dong Railroad Bridge SW has been repaired and is serviceable. This is a by-pass for the unserviceable main bridge [REDACTED]. A second by-pass bridge [REDACTED] is still under construction and not yet complete.

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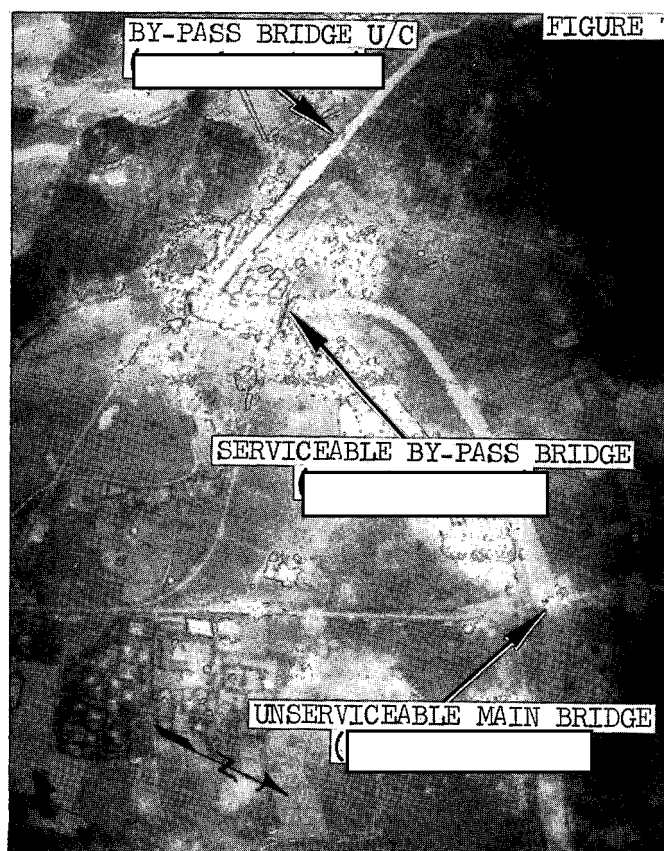


FIGURE 7

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ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME: Thinh Lac Railroad Bridge

BE:

COORDINATES: 19 40N - 105 42E, WG741748

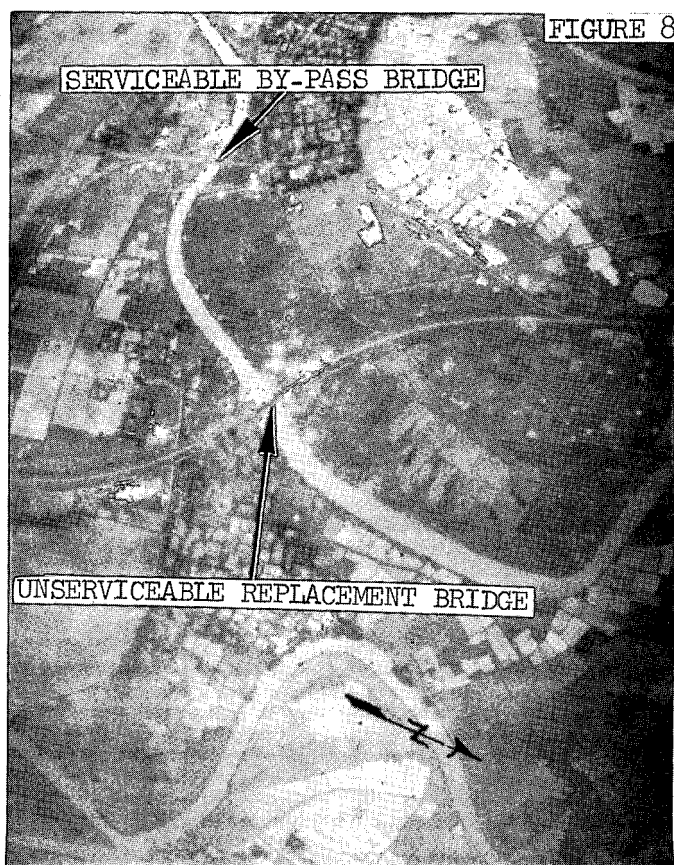
PHOTO REFERENCE:

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MAP REFERENCE: JOG (A) 1501, NE 48-3

One span of the 4-span, deck-beam Thinh Lac Railroad Replacement Bridge has been destroyed. The bridge is under active repair, but is presently unserviceable. However, a by-pass bridge to the west of the main bridge remains serviceable to through rail traffic.

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME: Trong Quang Tien RR Bridge E

BE: NA

COORDINATES: 19 37N - 105 42E, WG740696

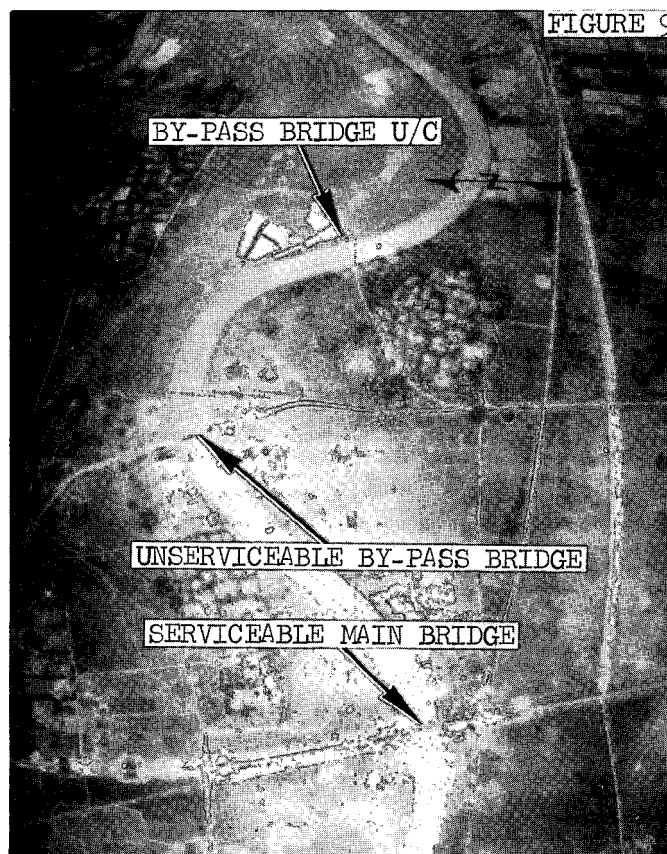
25X1

PHOTO REFERENCE:

MAP REFERENCE: JOG (A) 1501, NE 48-3

Approximately 4 spans of the multi-span, deck-beam Trong Quang Tien Railroad Bridge E have been destroyed and 1 span has probably been damaged. The main bridge remains serviceable and a second by-pass bridge is under construction.

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ITEM OF INTEREST NO. 5: Hanoi/Dong Hoi Rail Line

NAME: Thi Long RR By-pass Bridge

BE: NA

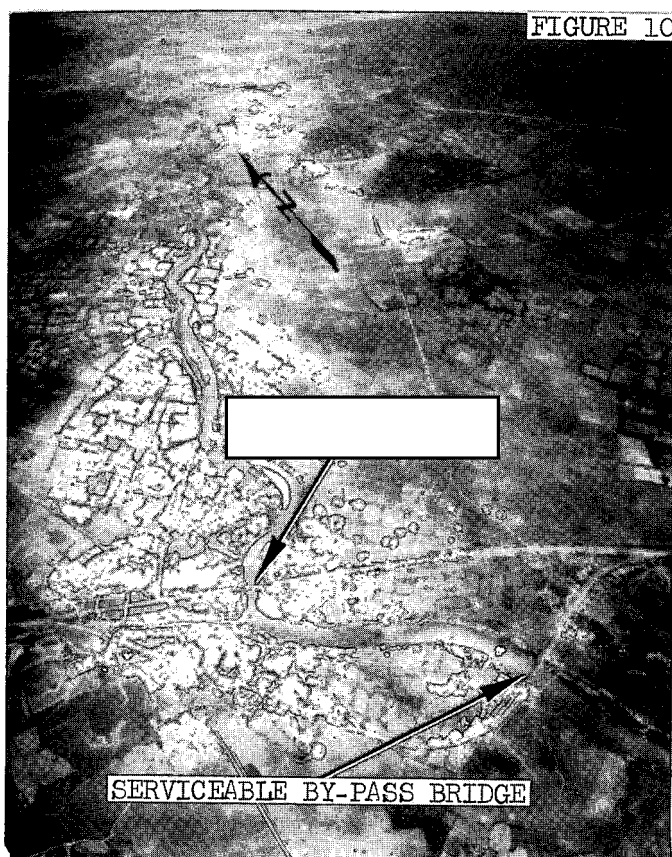
COORDINATES: 19 30N - 105 44E, WG775577

25X1

MAP REFERENCE: JOG (A) 1501, NE 48-3

The 4-span, deck-beam Thi Long Railroad By-pass Bridge has been completed and is serviceable. The main bridge [REDACTED] remains serviceable.

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ITEM OF INTEREST NO. 6: Hanoi/Dong Hoi Rail Line

NAME: Tam Da RR and Hwy Bridge

25X1

BE: [REDACTED]

COORDINATES: 18 50N - 105 39E, WF691839

25X1

PHOTO REFERENCE: [REDACTED]

MAP REFERENCE: JOG (A) 1501, NE 48-7

25X1

Photography of [REDACTED] revealed that damage to the Tam Da Railroad Replacement Bridge from a previous air strike has been repaired and the bridge is serviceable (Figure 11). Fifteen days later, the bridge is observed unserviceable. Both abutments have been damaged and the southern end of the bridge has been destroyed (Figure 12). The by-pass bridge remained unserviceable throughout this period.

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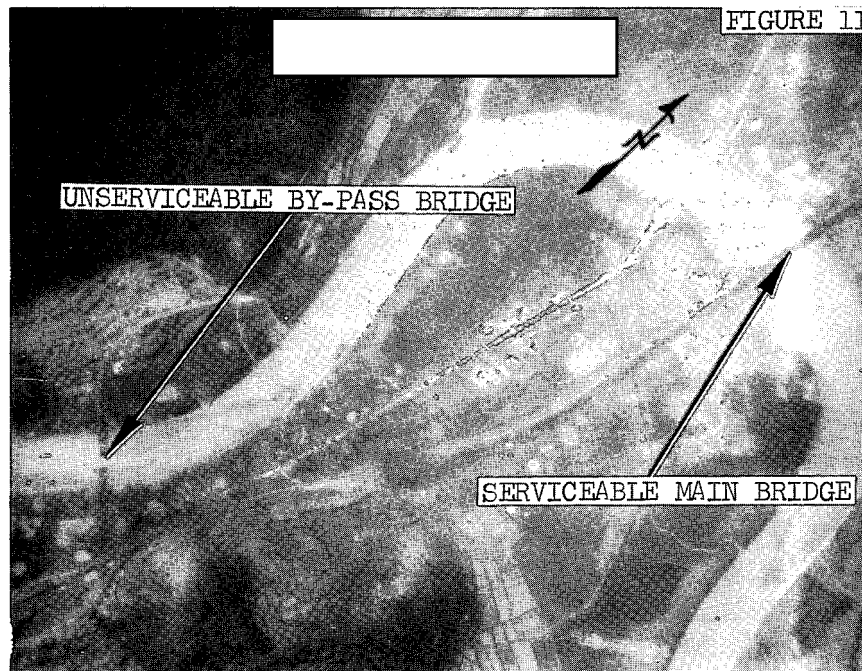
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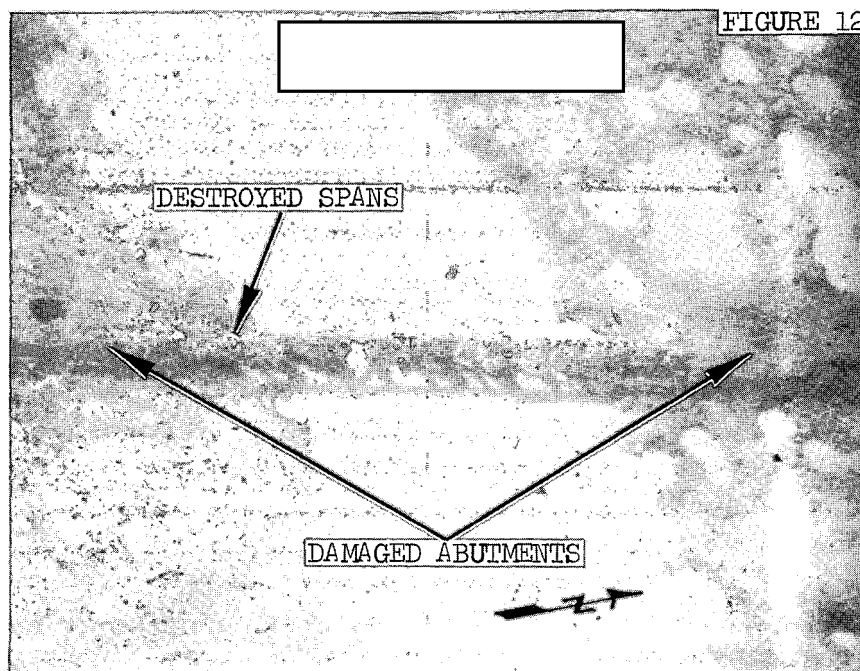
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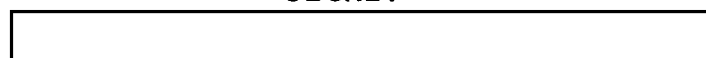


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ITEM OF INTEREST NO. 7: Hanoi/Dong Hoi Rail Line

NAME: Vinh Transshipment Point

BE: NA

COORDINATES: 18 41N - 105 40E, WF700657

PHOTO REFERENCE:

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MAP REFERENCE: JOG (A) 1501, NE 48-7
Series L 7014, Sheet 6146 III

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The present terminus of track on the Hanoi-Vinh segment of the Hanoi/Dong Hoi Rail Line is located 1.2 nm south of the Vinh Railroad Classification Yard NW [] at UTM WF701636 (Figure 16). The railroad yard and 2 new dead end railroad spurs (a 3rd is under construction) 0.2 nm SW of the yard are being used as a rail to truck transshipment area (Figure 13). Approximately forty-eight 2-axle flat cars are present within this area and an additional 11 cars are located on the main line 0.4 nm south of the yard (not illustrated). A total of 29 pieces of conventional meter gauge rolling stock, of which at least 13 are undamaged, are abandoned in the vicinity of the unused turning wye approximately 0.5 nm north of the yard (Report No. 23). A probable conventional steam locomotive is located on the turning wye under a partially roofed area (Figure 14).

A new dead end spur has been built approximately 2 nm north of the railroad yard at UTM WF706699 (Figures 15 and 16). This spur probably serves as a holding area for the Vinh transshipment point and presently contains approximately 29 2-axle flat cars.

It has been previously hypothesized that south bound freight on this rail line was transloaded onto small, 2-axle flat cars in the Thanh Hoa Yards and forwarded to the south (See Report No. 29). The presence of large numbers of this type of rolling stock strongly indicates that the terminal point of at least a great portion of this railroad traffic is within the Vinh area.

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FIGURE 13

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TRACK ACTIVITY

ROLLING STOCK

SPUR TRACK U/C

SERVICEABLE SPURS

VINH RR YARD

VEHICLE TRACKS

-22-

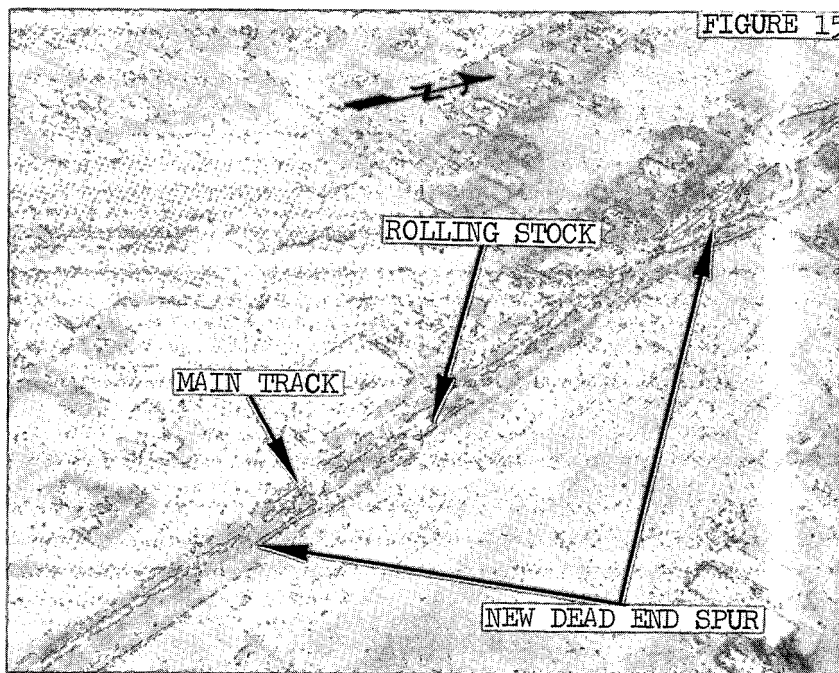
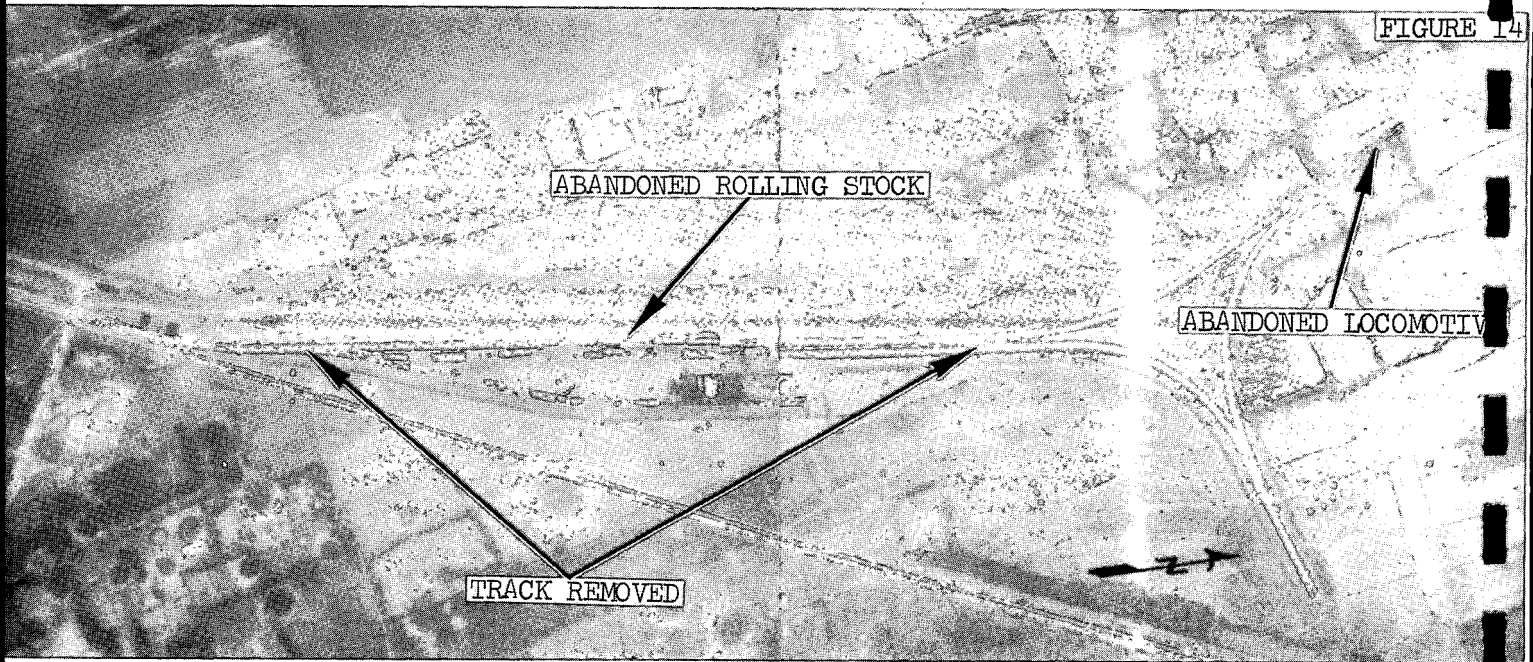
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FIGURE 16

Dang Yen.

City Chiam

FIGURE 15

FIGURE 14

FIGURE 1

RAIL TERMINUS

ABANDONED TRACK

SERVICEABLE TRACK

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ITEM OF INTEREST NO. 8: Hanoi/Dong Hoi Rail Line

NAME: Rolling Stock

BE: NA

COORDINATES: Various

PHOTO REFERENCE:

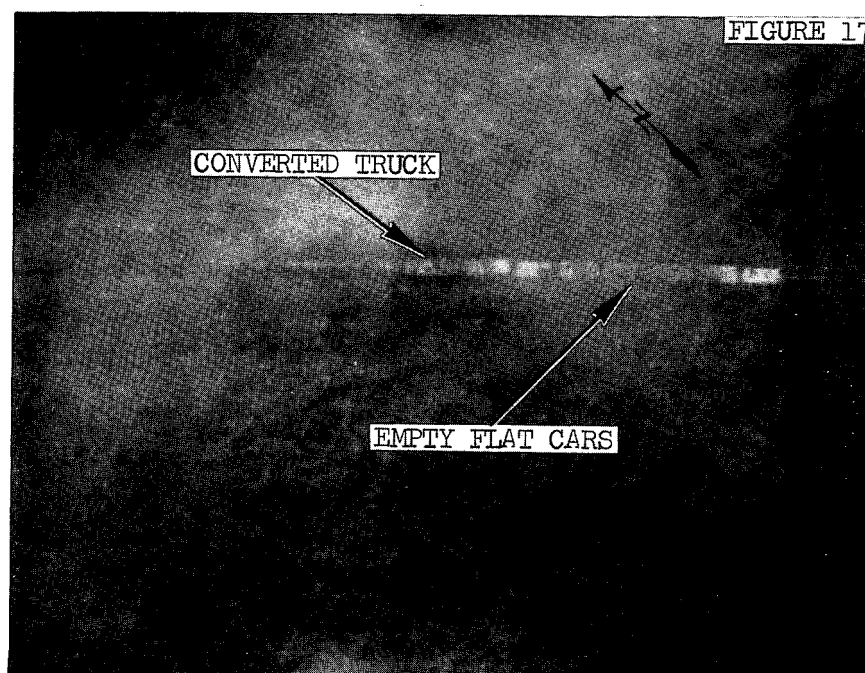
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MAP REFERENCE: JOG (A) 1501, NE 48-11
JOG (A) 1501, NE 48-7

25X1

Two moving trains were sighted on the southern section of this rail line on [REDACTED] during the recent Tet period. One train consisting of a converted truck and 7 empty 2-axle flat cars (Figure 17) was observed moving northwest at 18 00N - 105 54E, UTM WE959912. A second train was seen at 17 57N - 105 58E, UTM XE022848 moving to the southeast (Figure 17). It consisted of a converted truck and three 2-axle flat cars loaded with unidentified material.

In addition to these 2 moving trains, approximately 17 pieces of motionless lightweight rolling stock were observed at 18 02N - 105 51E, UTM WE910937 on the same date (Figure 19).



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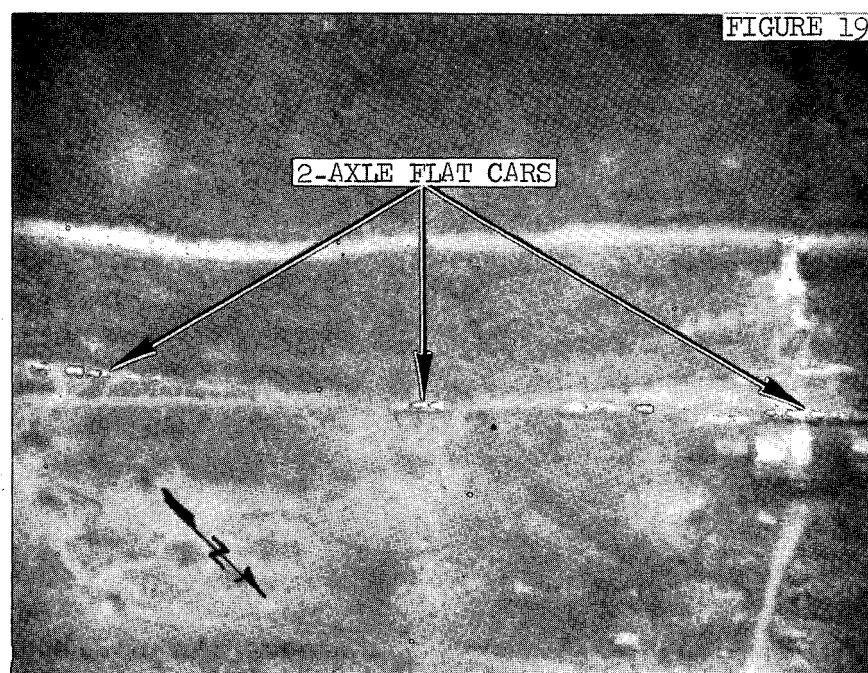
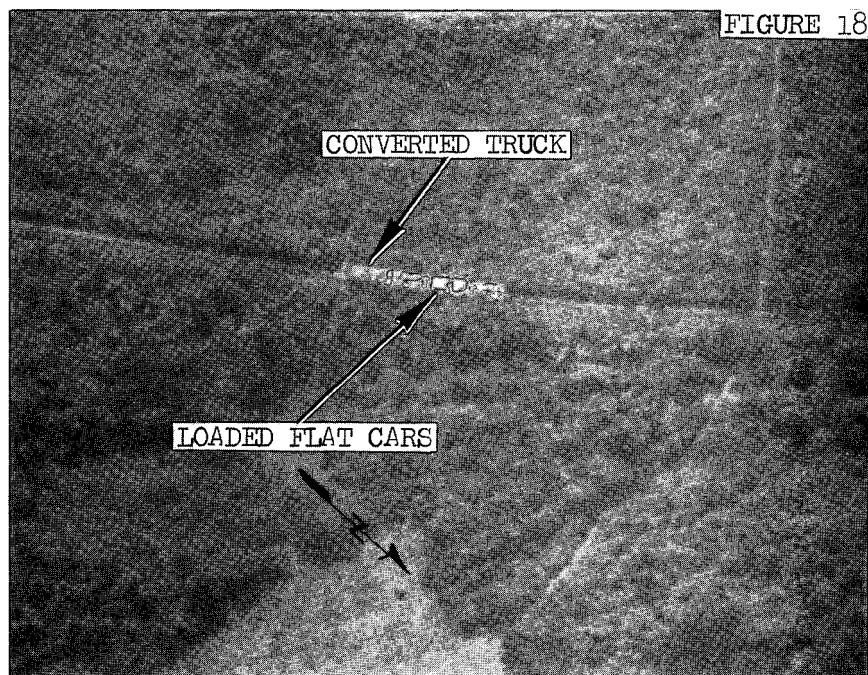
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ITEM OF INTEREST NO. 9: Hanoi/Dong Hoi Rail Line

NAME: Rolling Stock and Supplies

BE: NA

COORDINATES: 17 54N - 106 00E, XE063803

PHOTO REFERENCES:

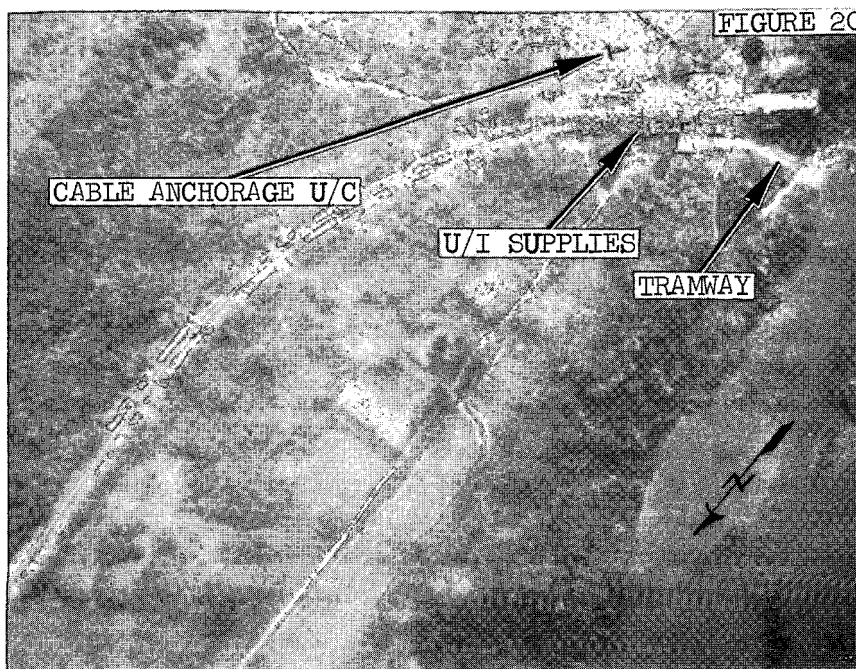
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MAP REFERENCE: JOG (A) 1501, NE 48-11

DOCUMENTS: NPIC Cable CITE 0145, DTG072006Z, CONFIDENTIAL

Considerable railroad activity has been observed along the southern portion of this rail line, especially in the vicinity of the destroyed Thuong Phong Trang Railroad Bridge [REDACTED]. This bridge, originally destroyed by the French, has never been reconstructed. A recent by-pass bridge attempt has been abandoned by the North Vietnamese and the major river crossing appears to have become a logistic bottleneck for this segment of serviceable track. Supplies were noted on both banks of the river (Figures 20 and 21), and at least 20 pieces of lightweight rolling stock have been observed in the vicinity of this bridge (partially illustrated in Figures 21 and 22). Supplies are probably transloaded from 1 river bank to the other by several aerial tramways. A cable anchorage for a new probable tramway is under construction adjacent to the northern approach of the destroyed bridge (Figure 20).

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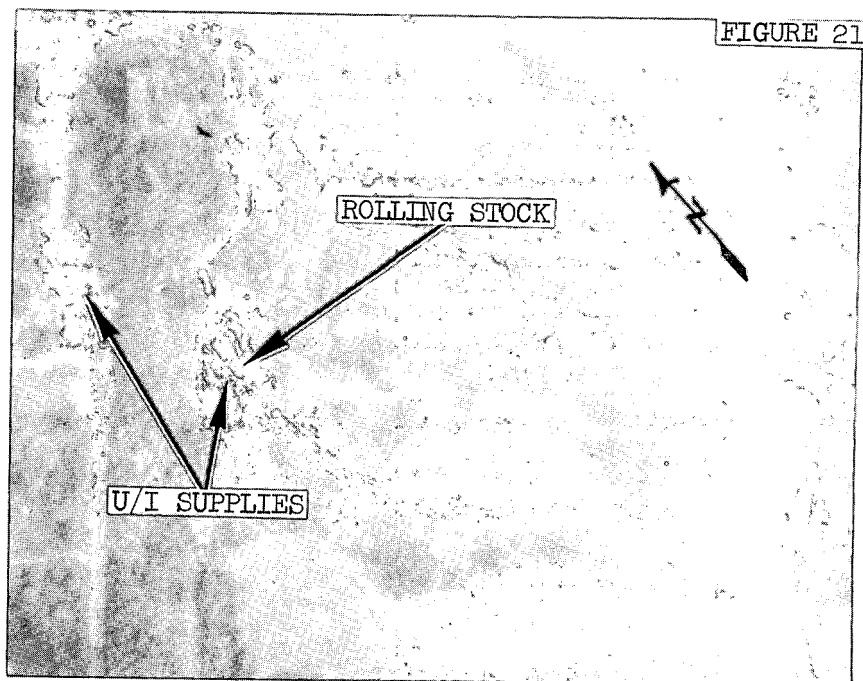
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ITEM OF INTEREST NO. 10: Hanoi/Dong Hoi Rail Line

NAME: Railroad Extension

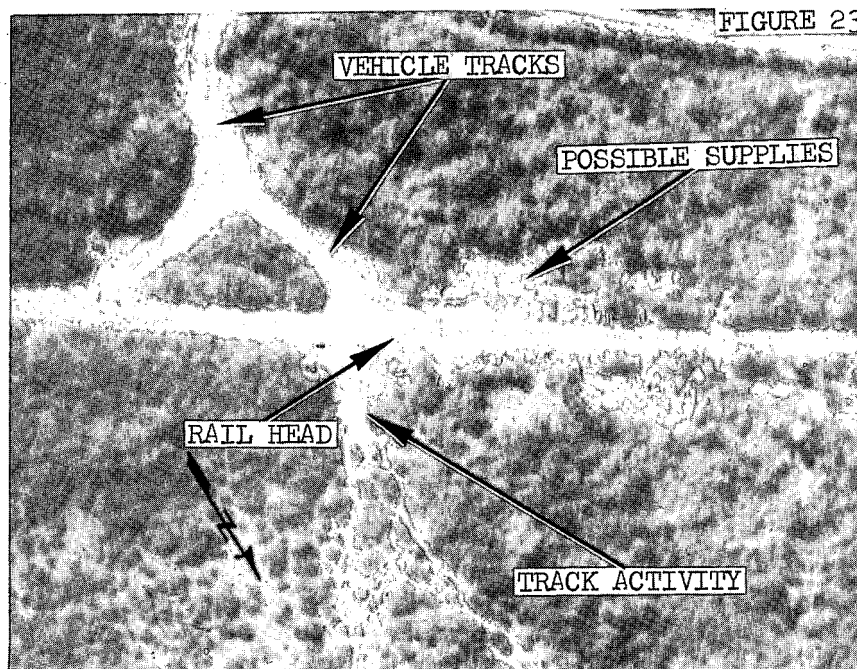
BE: NA

COORDINATES: 17 49N - 106 07E, XE175713

PHOTO REFERENCE:

MAP REFERENCE: JOG (A) 1501, NE 48-11
Series L7014, Sheet 6244 IV

Track has been extended an additional 1.4 nm toward Dong Hoi (Figures 22 and 25) from the rail head previously reported in Report No. 26. Two highway bridges, including a previously destroyed bridge, that were being converted into railroad bridges on [REDACTED] Report No. 26) are now serviceable to rail traffic (Figures 23 and 24). A probable rail-to-road transshipment area is located at the present rail head (Figure 22). Rail has now been laid to within approximately 38 nm of Dong Hoi.

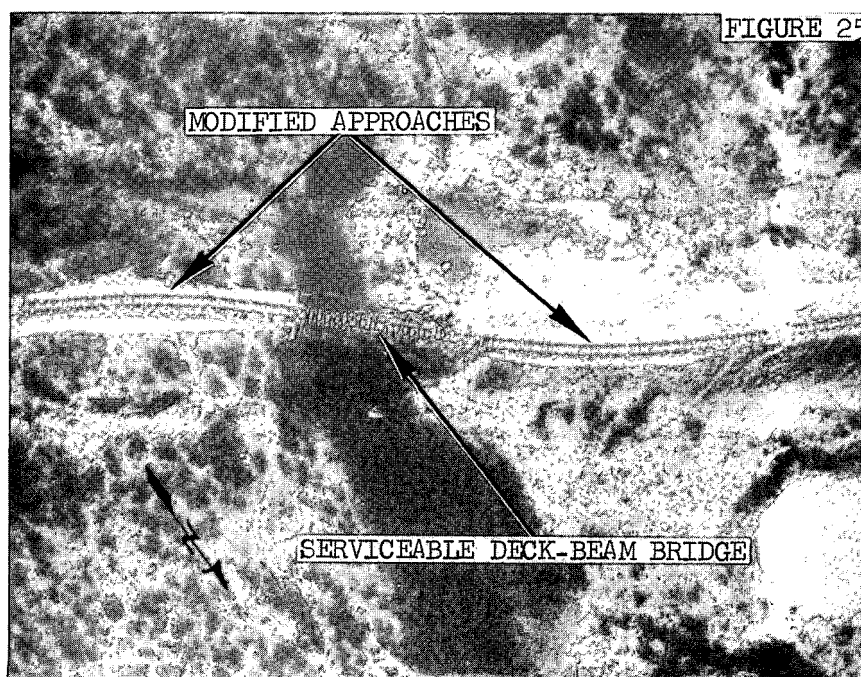
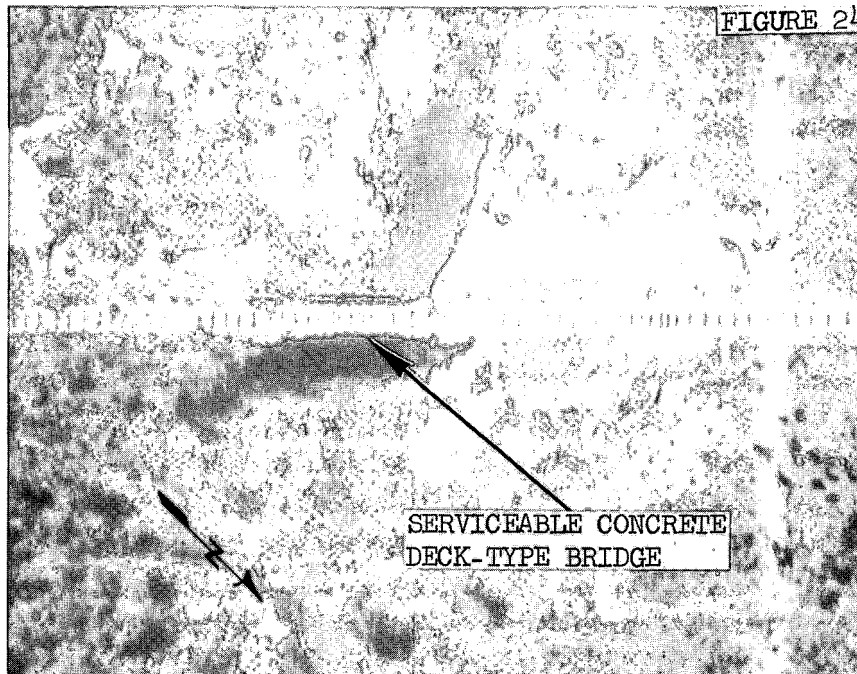
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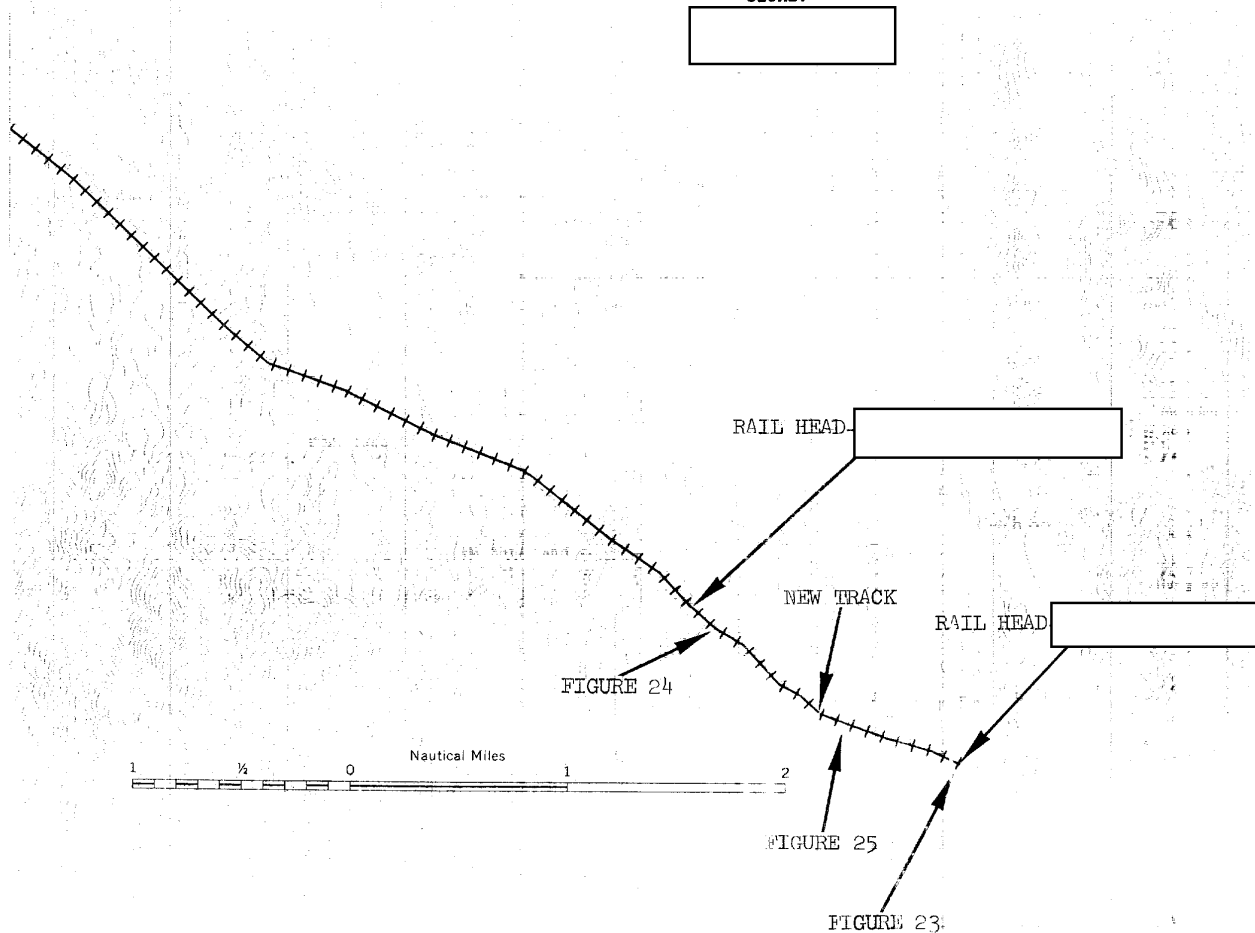
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PIR 75107
FIGURE 26



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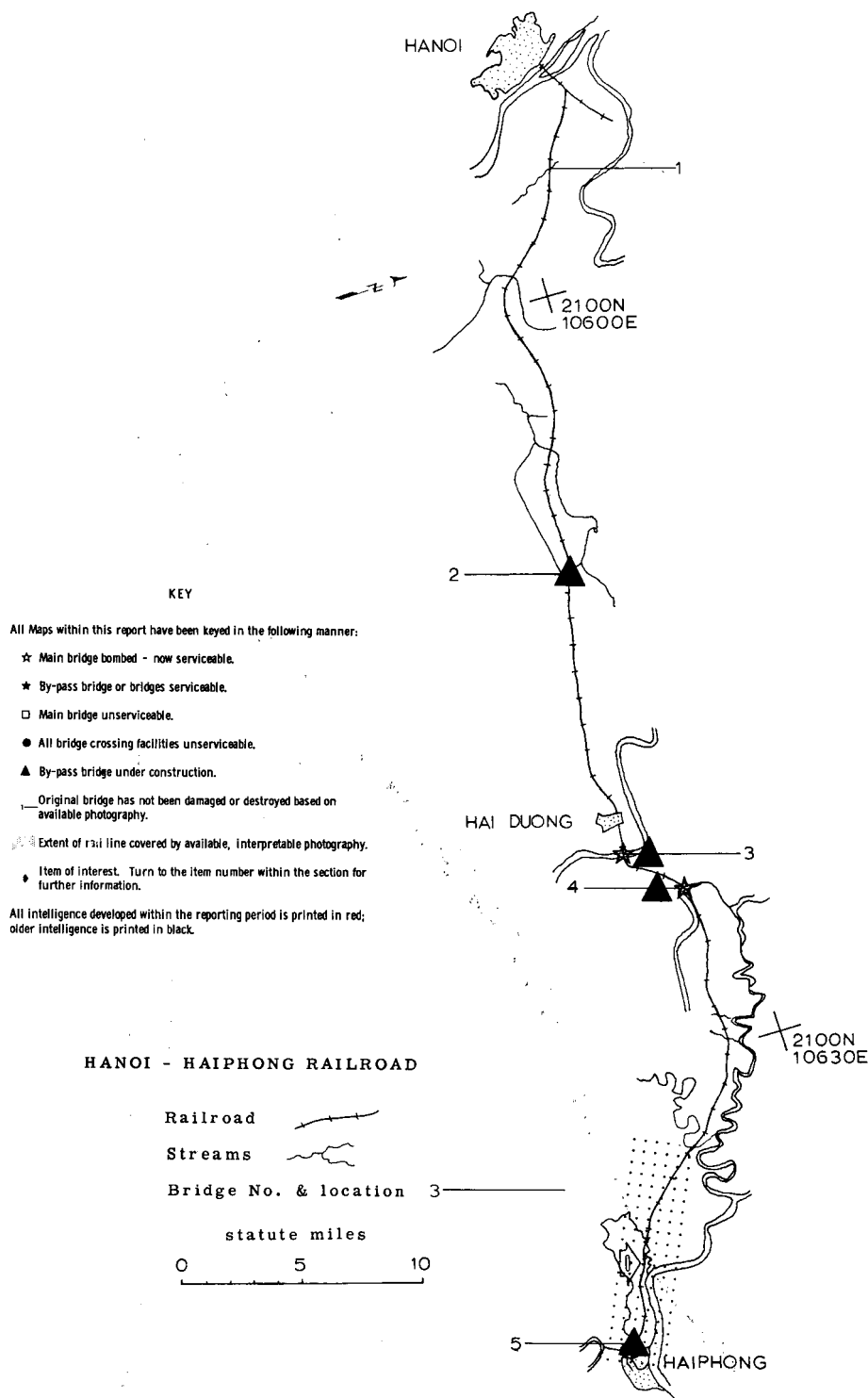
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FIGURE 27



-32-

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DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 1: Hanoi/Haiphong Rail Line

NAME: Loi Dong Transshipment Area

BE: NA

COORDINATES: 20 53N - 106 37E, XJ686105

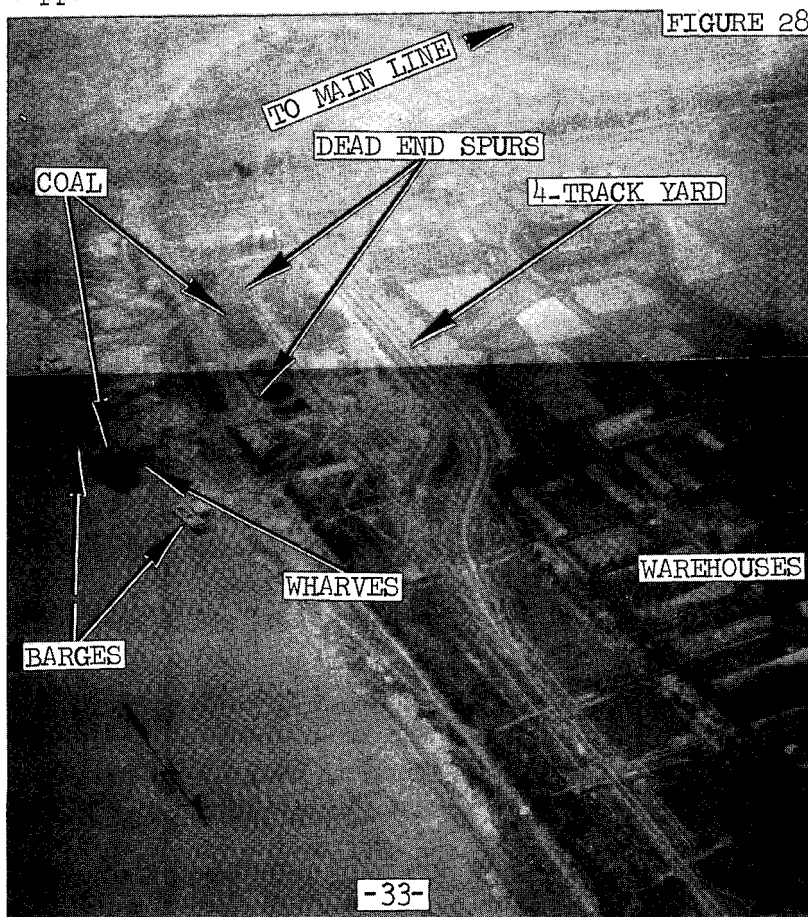
25X1 PHOTO REFERENCE:

MAP REFERENCE: JOG (A) 1501, NF 48-16

DOCUMENTS: Southeast Asia Activity Report NPIC/R-35/67, March 1967

A water to rail transshipment point is in the final stages of construction at Loi Dong, approximately 4.5 nm WNW of the Haiphong Railroad Station and Classification Yard Three tracks of a 4 track rail yard and 1 of 2 dead end spurs has been completed. There are 4 wharves within the area, all of which are in use. Coal is observed in barges as well as in stockpiles within the transshipment area. Other unidentified supplies are noted in the wharf area.

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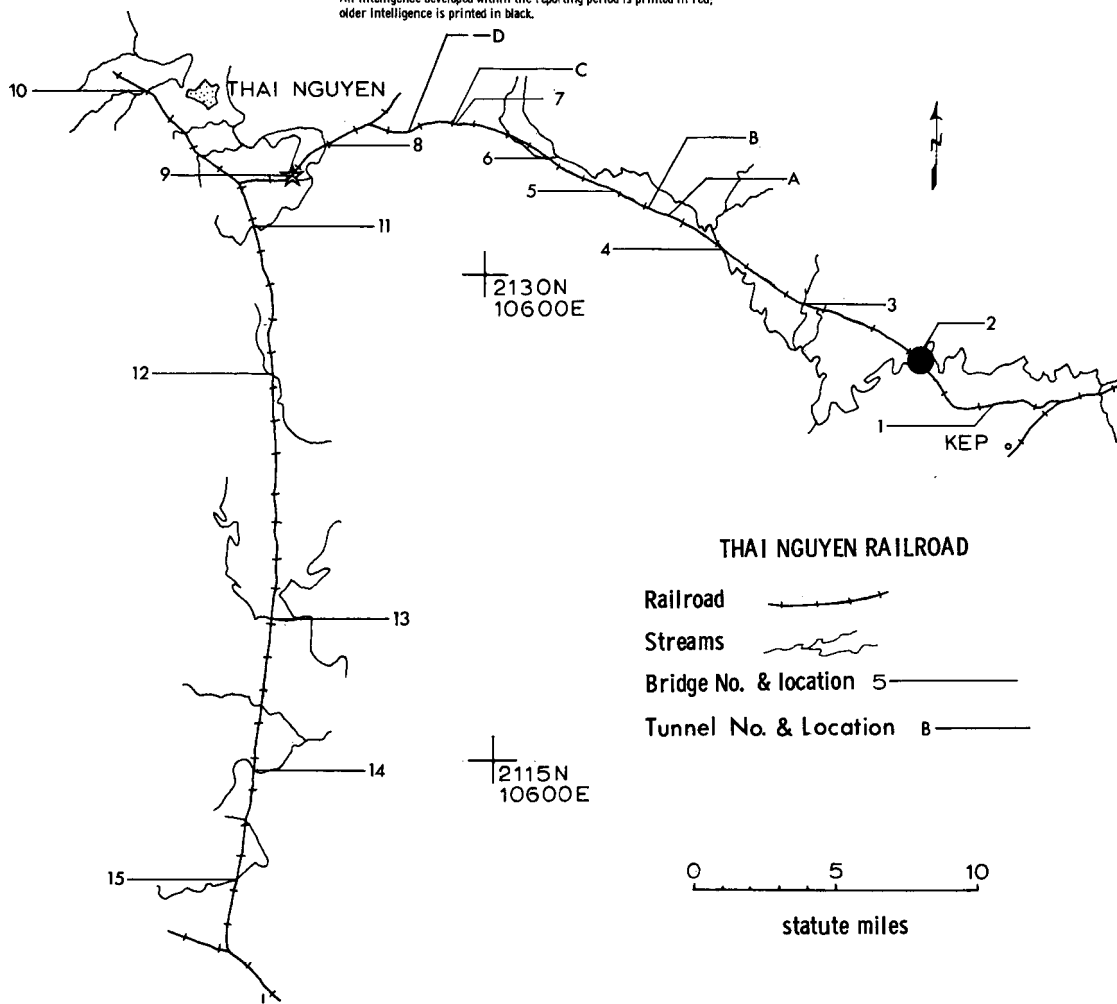
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FIGURE 29

KEY

All Maps within this report have been keyed in the following manner:

- ★ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- Main bridge unserviceable.
- All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- Item of interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.



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STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
2	Dong Muc Railroad Bridge over Song Thuong		U
9	Lang Lau Railroad Bridge over Song Cau		S

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*All data is compiled from photography dated or thereafter.
Symbols: S-Serviceable; U-Unserviceable

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